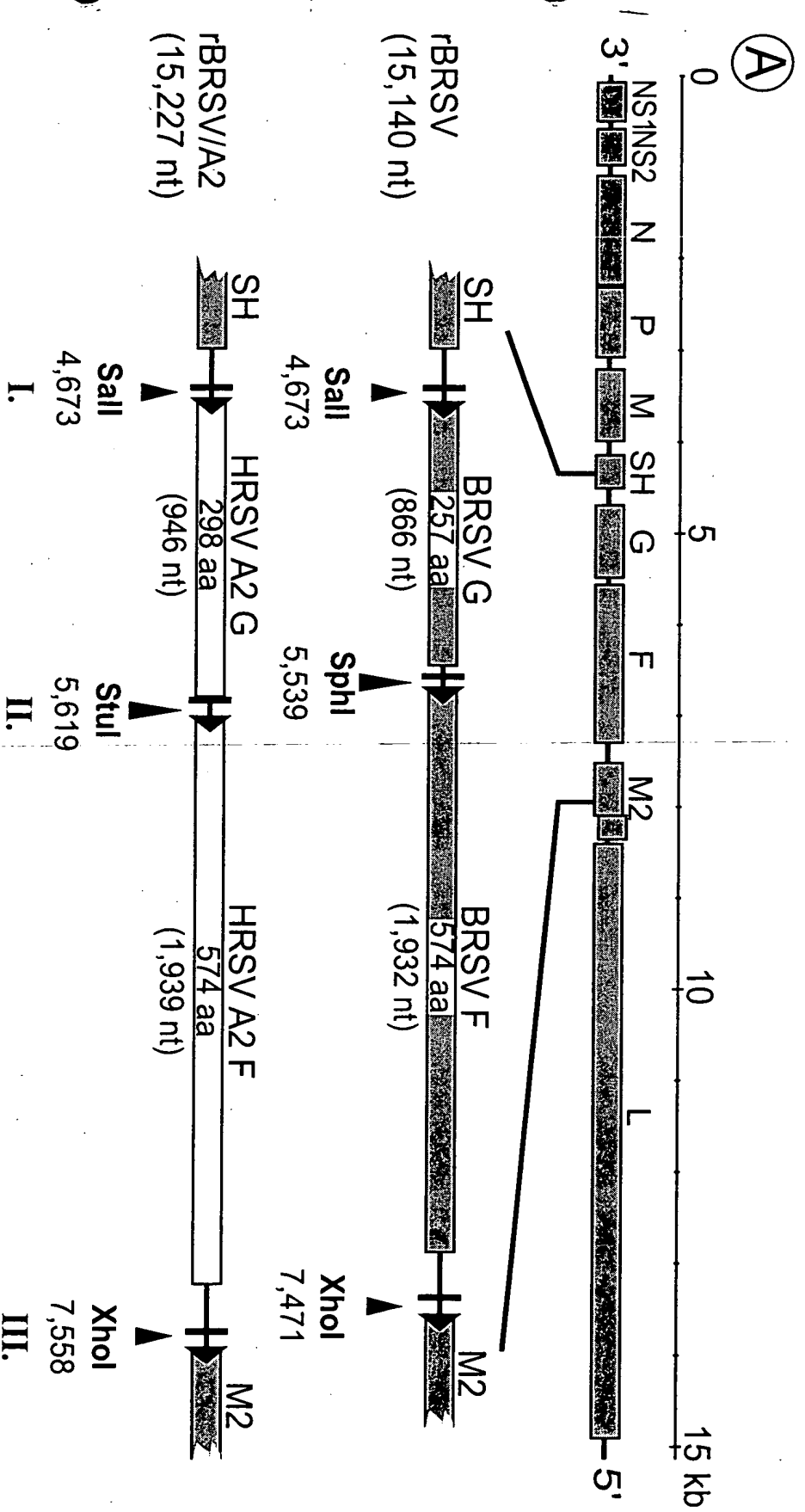


FIG. 1A

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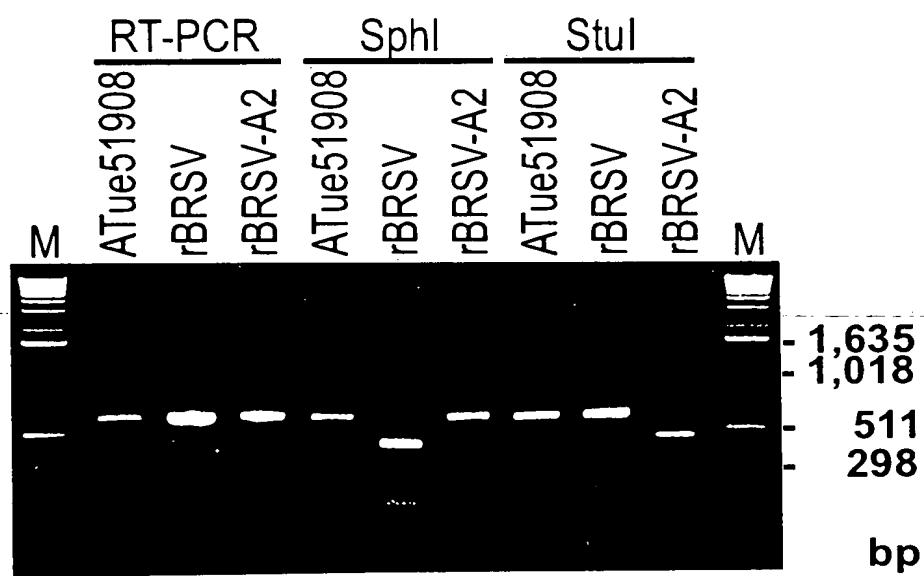
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[illegible][illegible][illegible][illegible]

RT-PCR			Sall		
ATue51908	rBRV	rBRV-A2	ATue51908	rBRV	rBRV-A2
Band at ~1,018 bp	Band at ~511 bp	Band at ~1,018 bp	Band at ~1,018 bp	Band at ~511 bp	Band at ~1,018 bp

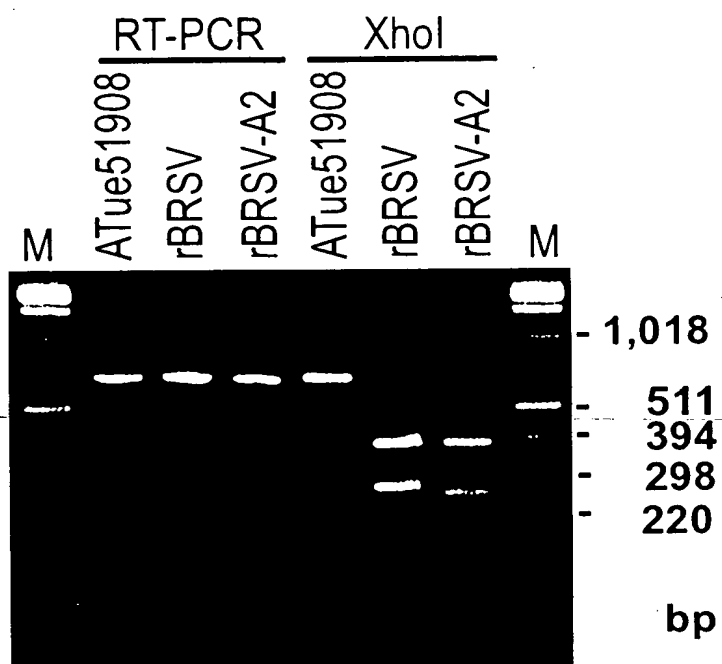
bp

Fig. 2B



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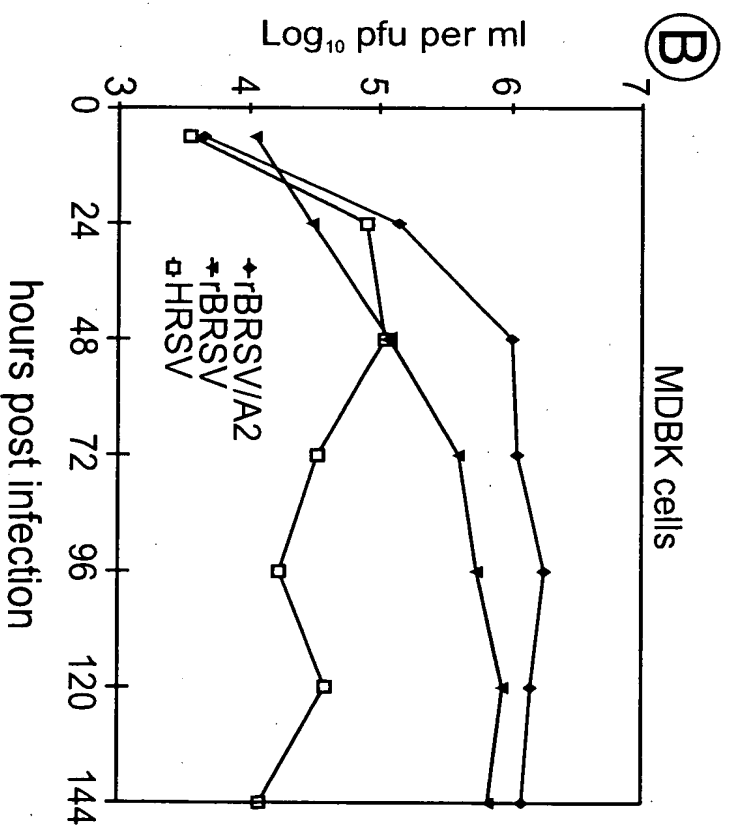
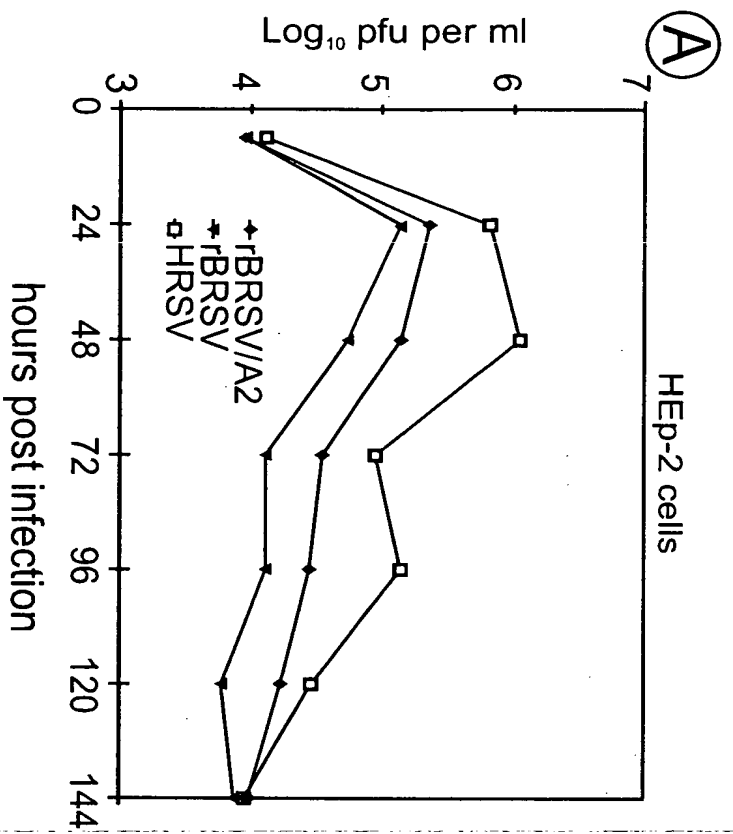
Fig. 2C



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Fig. 3

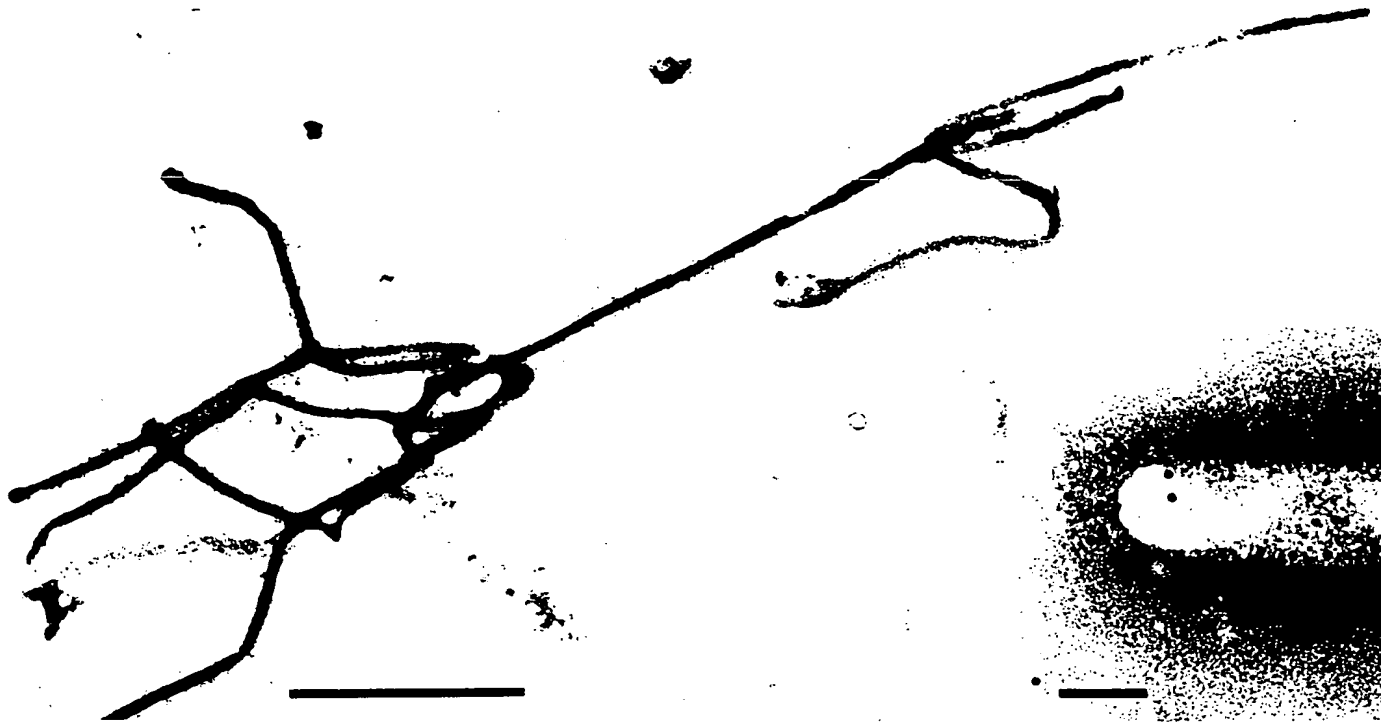
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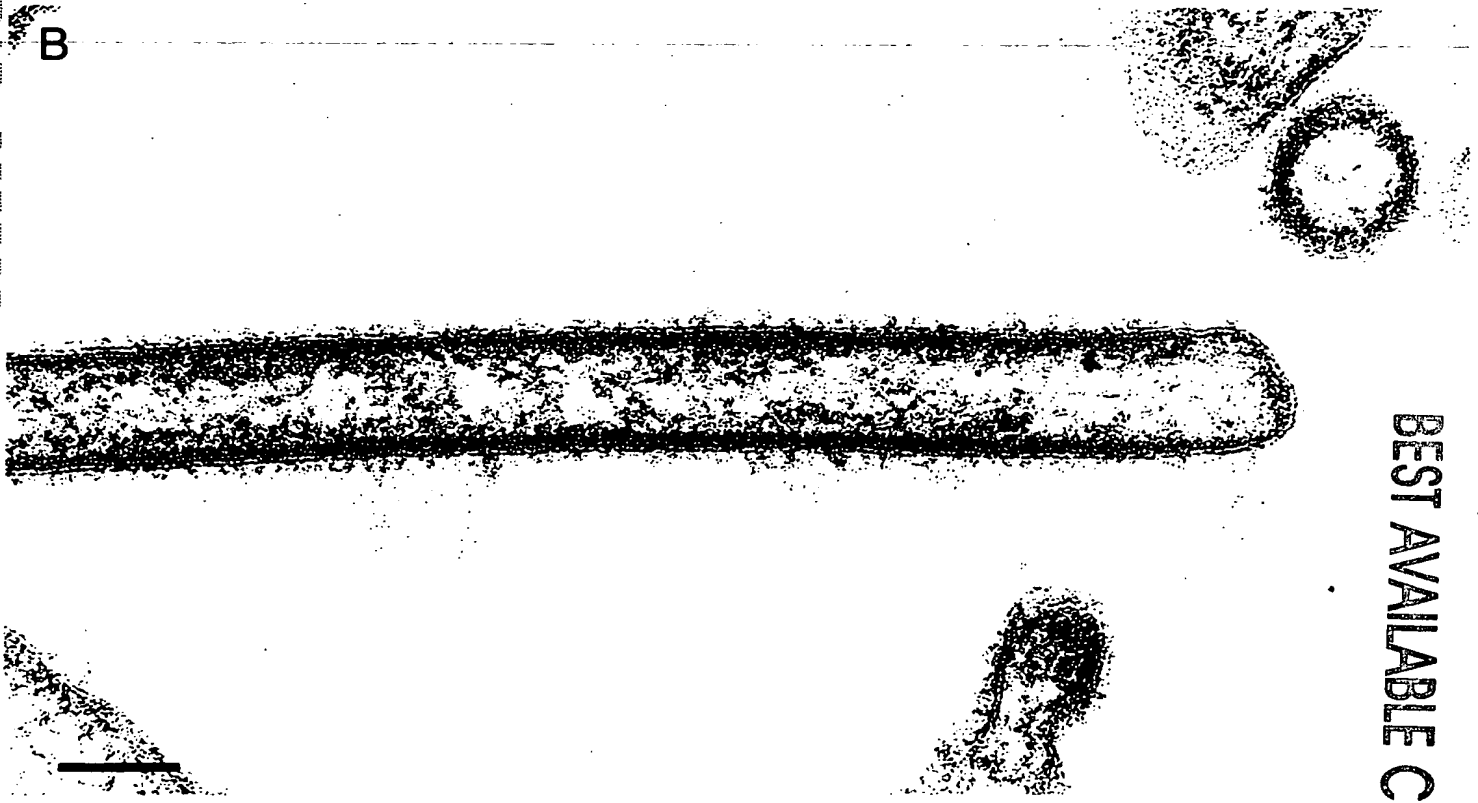
09602212.062300

Fig. 4

A



B



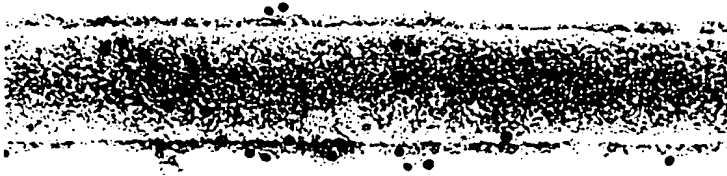
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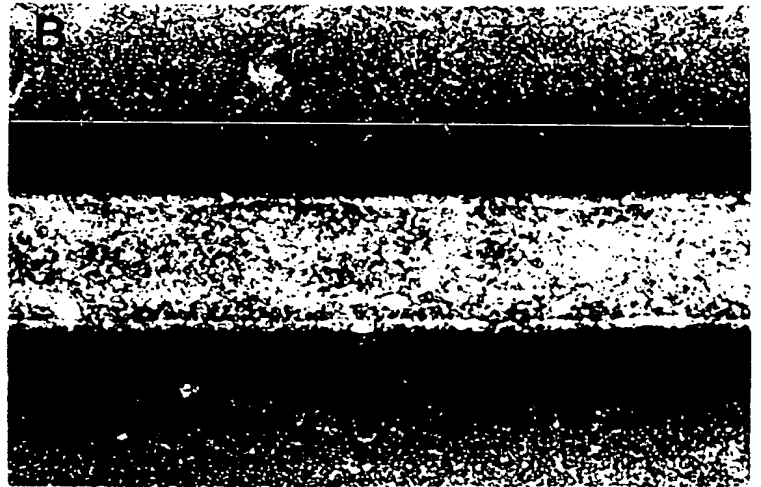
Fig. 5

BEST AVAILABLE COPY

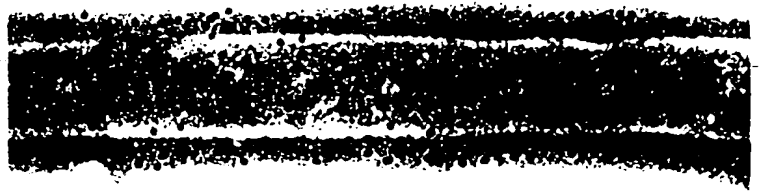
A



B



D



F



E

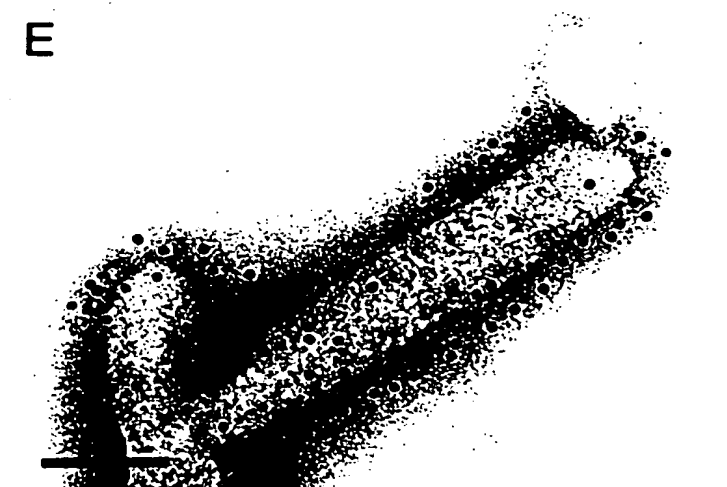
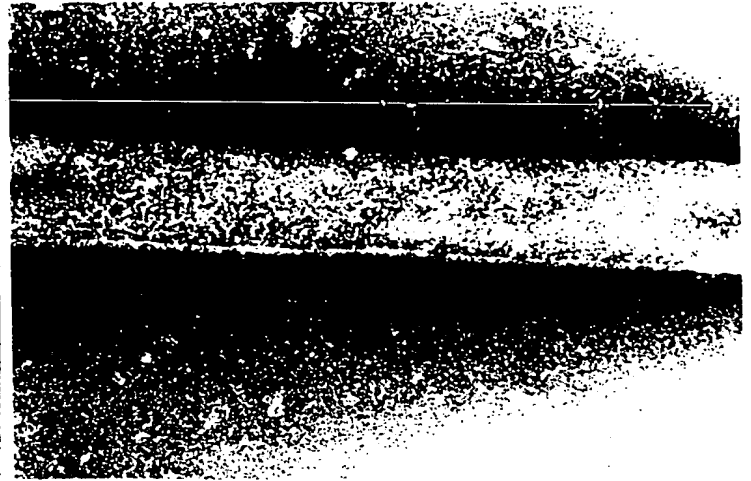
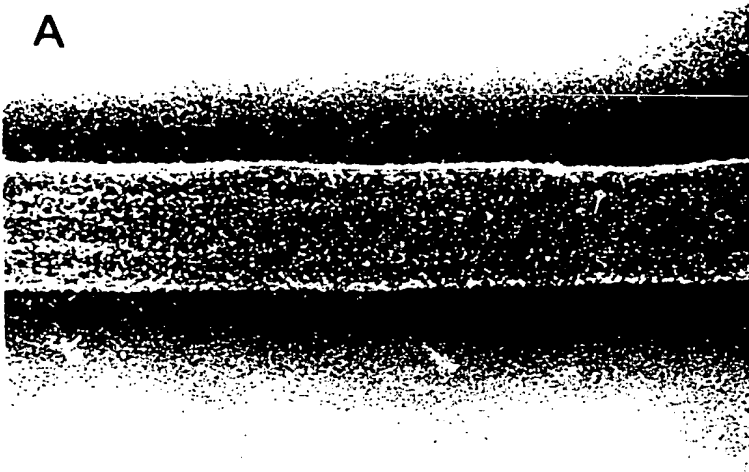




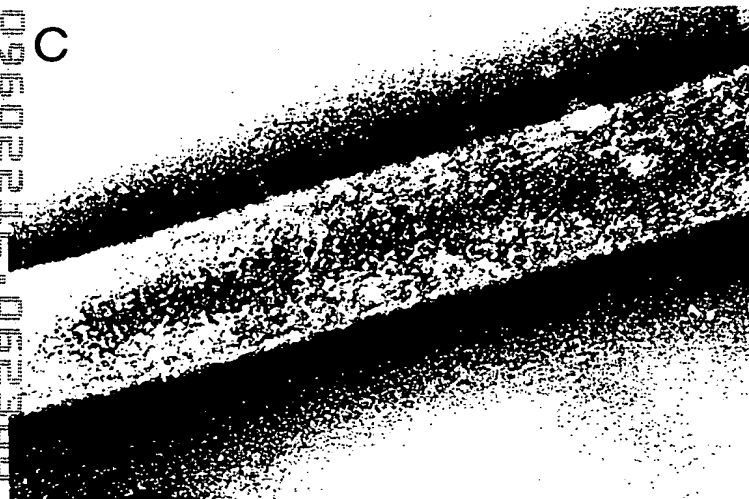
Fig. 6

BEST AVAILABLE COPY

A



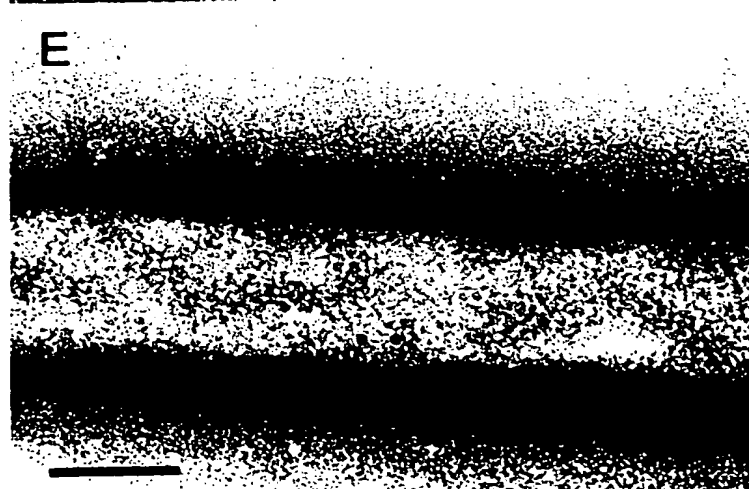
C



D



E

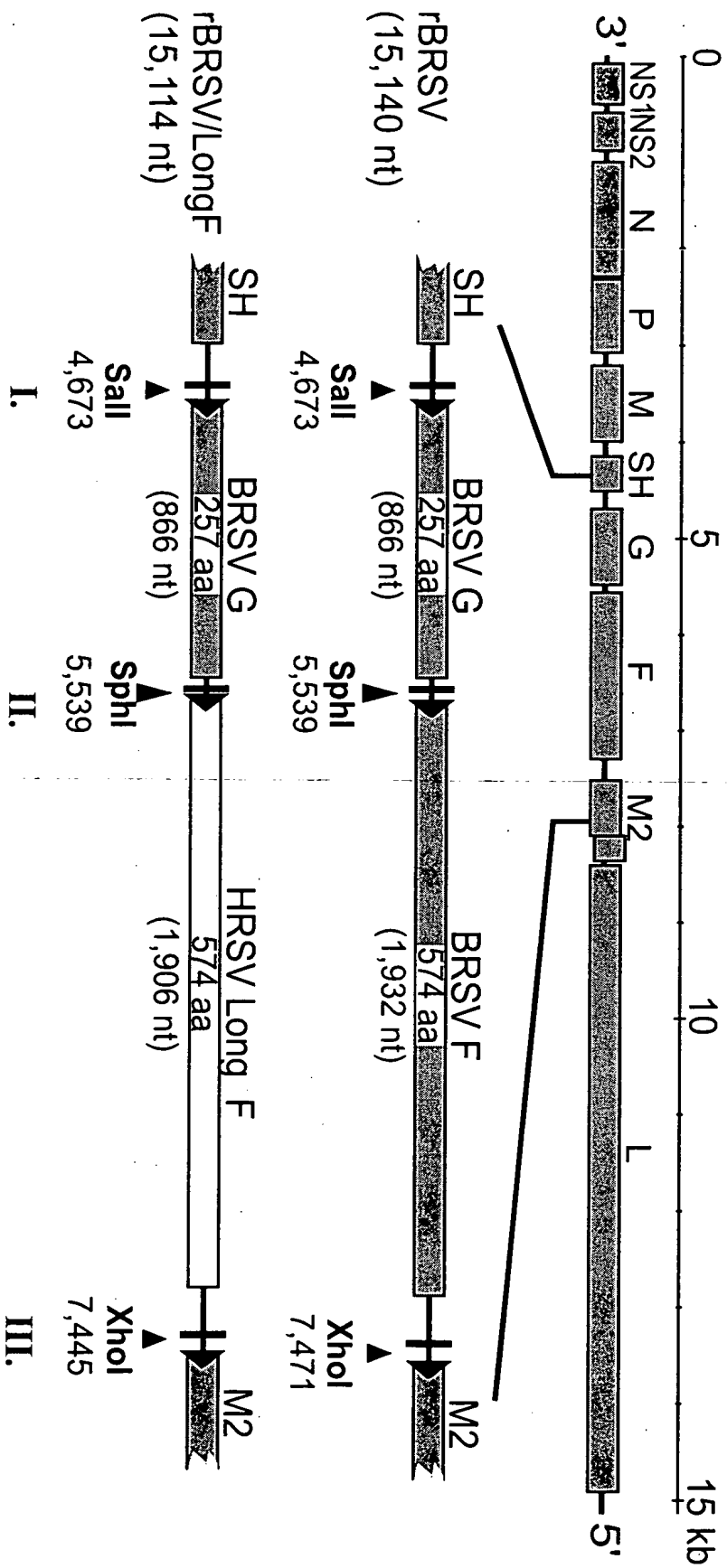


F



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Fig. 7A



## I. SH/G intergenic region

5' ATu 51908 4640 AGTTATTTTAAATTTAAACTTAAAAATGCTTTATGCTTACATACAGATGTTGGGCAAAATACAAAGTATGTCCAAACCATAACC 3'  
|||||  
rBSRV 4640 AGTTATTTTAAATTTAAACTTAAAAATGCTTTATGCTGACATACAGATGTTGGGCAAAATACAAAGTATGTCCAAACCATAACC 4719  
|||||  
rBSRV/LongF 4640 AGTTATTTTAAATTTAAACTTAAAAATGCTTTATGCTGACATACAGATGTTGGGCAAAATACAAAGTATGTCCAAACCATAACC 4719  
SH gene end SalI G gene start  
signal signal

## II. G/F intergenic region

5' ATue51908 5517 AGTTATTTTAAATTTAAACTTATATTAATTCACCTAATTAAAACTGGGGCAAAATTAAGCATGCCGACA 3'  
|||||  
rBSRV 5517 AGTTATTTTAAATTTAAACTTATATTAATTCACCTAATTAAAACTGGGGCAAAATTAAGCATGCCGACA 5578  
|||||  
rBSRV/LongF 5517 AGTTATTTTAAATTTAAACTTATATTAATTCACCTAATTAAAACTGGGGCAAAATTAAGCATGCCGACA 5562  
G gene end SphI F gene start  
signal signal

## III. F/M2 intergenic region

5' ATu 51908 7436 CCATGTTGATAGTTTATATATAATATATTAATTAAGTCTCAAGAATAAAATTAATTTAACAACCAATCATTCAAAAAGATGGGGCAAAAT 3'  
|||||  
rBSRV 7436 CCATGTTGATAGTTTATATATAATATATTAATTAAGTCTCGAGCAATAAAATTCGATTAAACAACCAATCATTCAAAAAGATGGGGCAAAAT 7522  
|||||  
rBSRV/LongF 7422 CCTAGTTTATAGTTTATATATAATATATTAAGTCTCGAGCAATAAAATTCGATTAAACAACCAATCATTCAAAAAGATGGGGCAAAAT 7496  
F noncod. F gene end XhoI ClaI M2 g ne start  
signal signal

FIG. 8

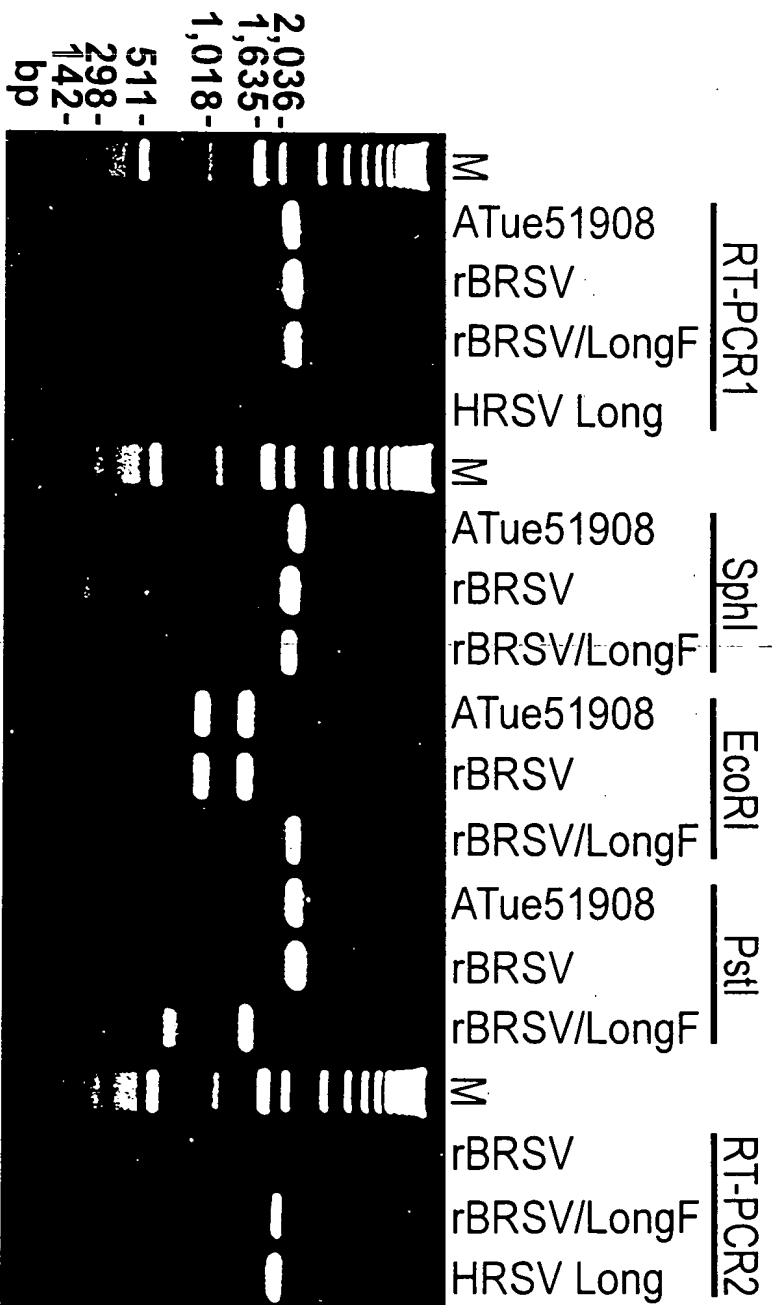


Fig. 9

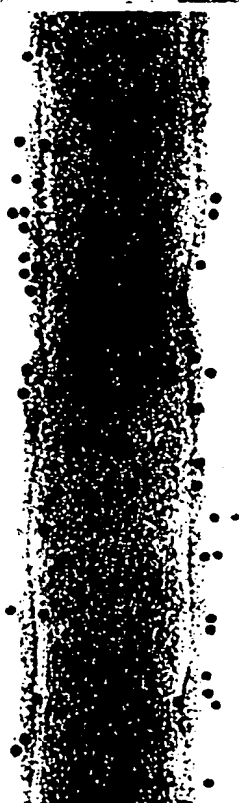
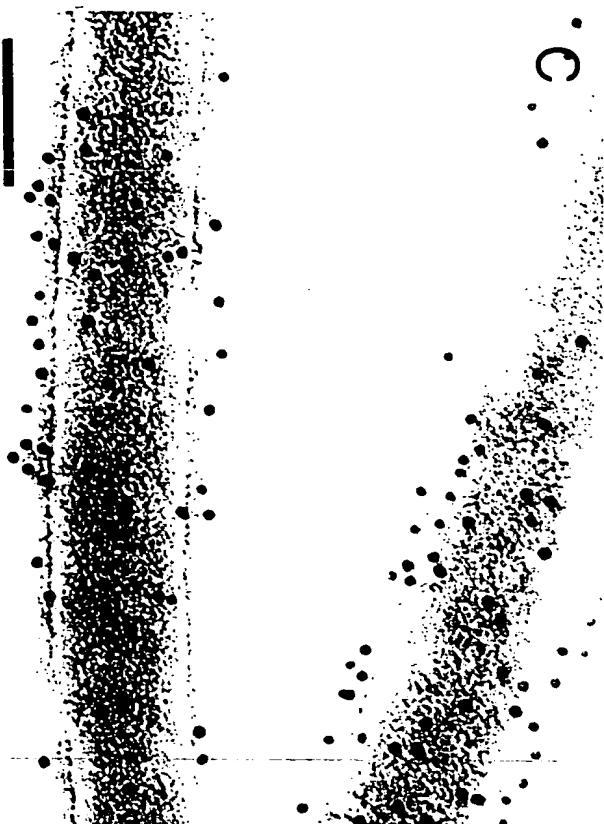
A BEST AVAILABLE COPY

B



C.

D

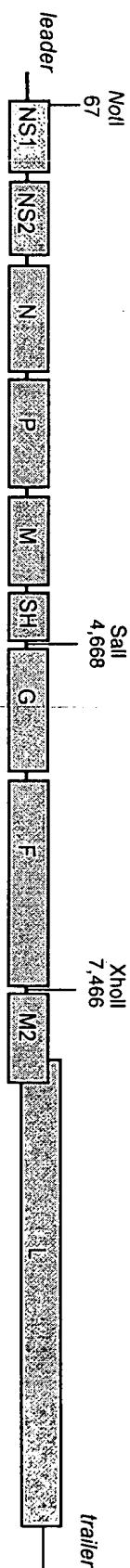


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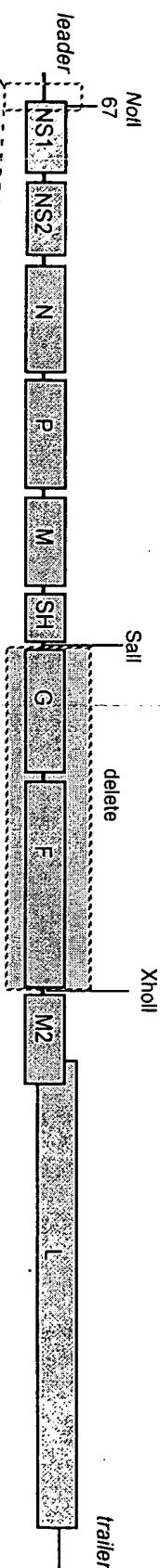
A. rBRSV

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Figure 10



B. Modifications to rBRSV to create rBRSV/A2-G1F2



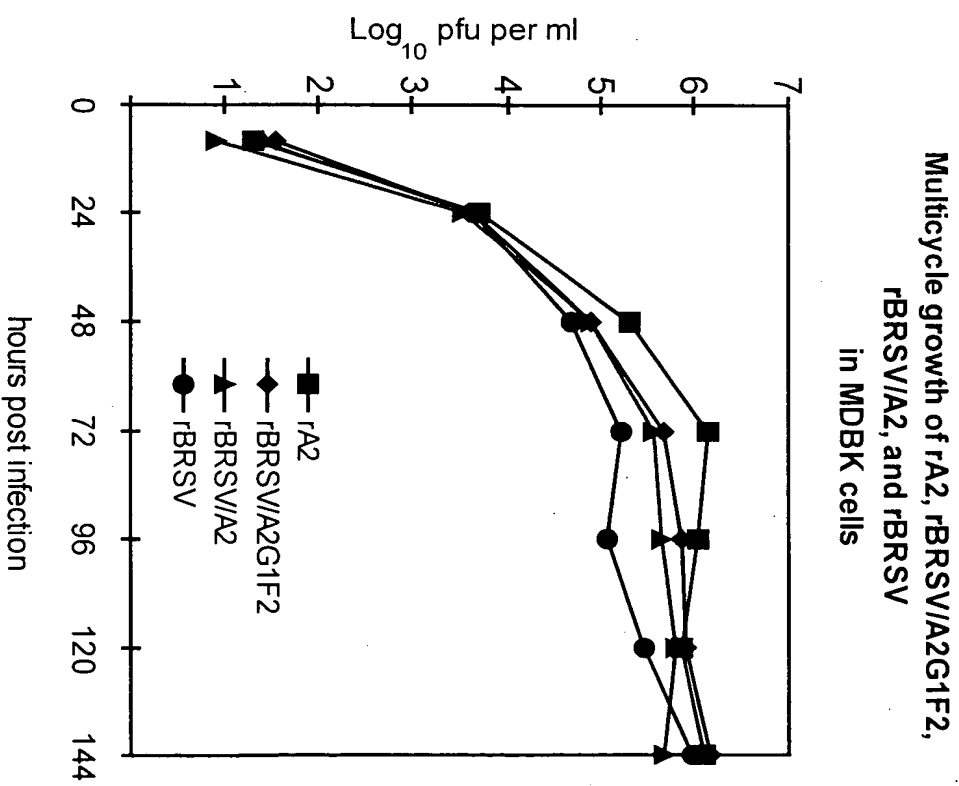
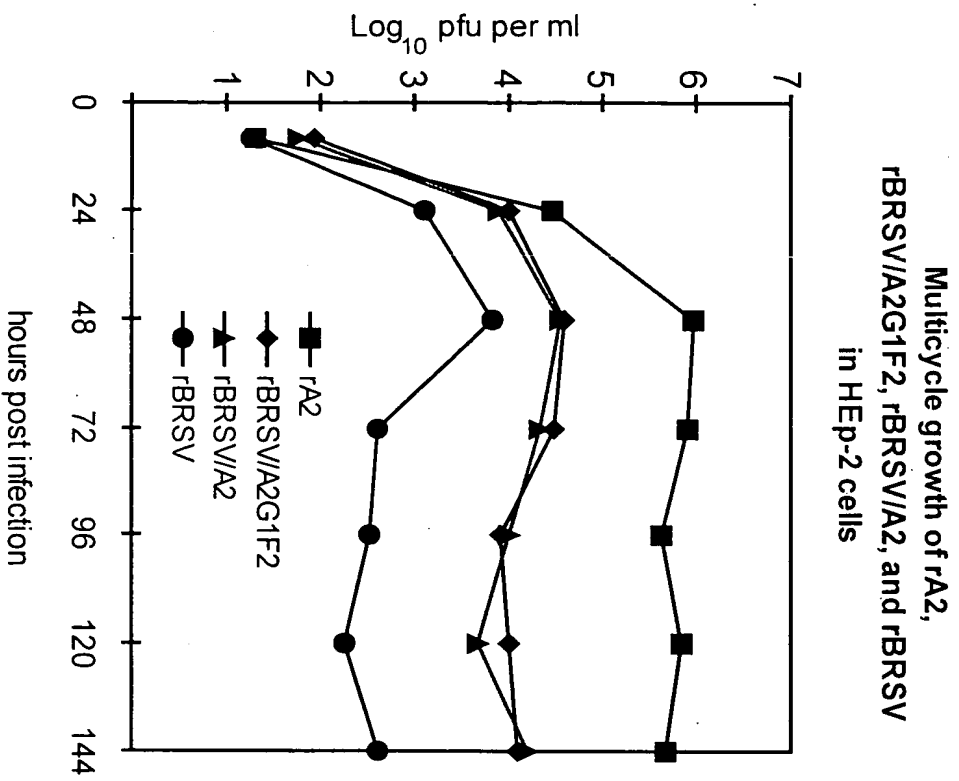
55  
leader — GGGGCAATA (SEQ ID NO. 14) NSI  
Gene-start  
NotI

(SEQ ID NO. 15)  
GGGGCGCTAAATTAACTCCCTTGCTTAGCGATG  
BspI  
4692  
G  
GE  
G-F  
IG  
GS  
F  
Z551  
Gene-start (SEQ ID NO. 16)  
GGGCAATGGGCAATAAGCTTAGCGCGCGC  
BspI NotI

C. rBRSV/A2-G1F2

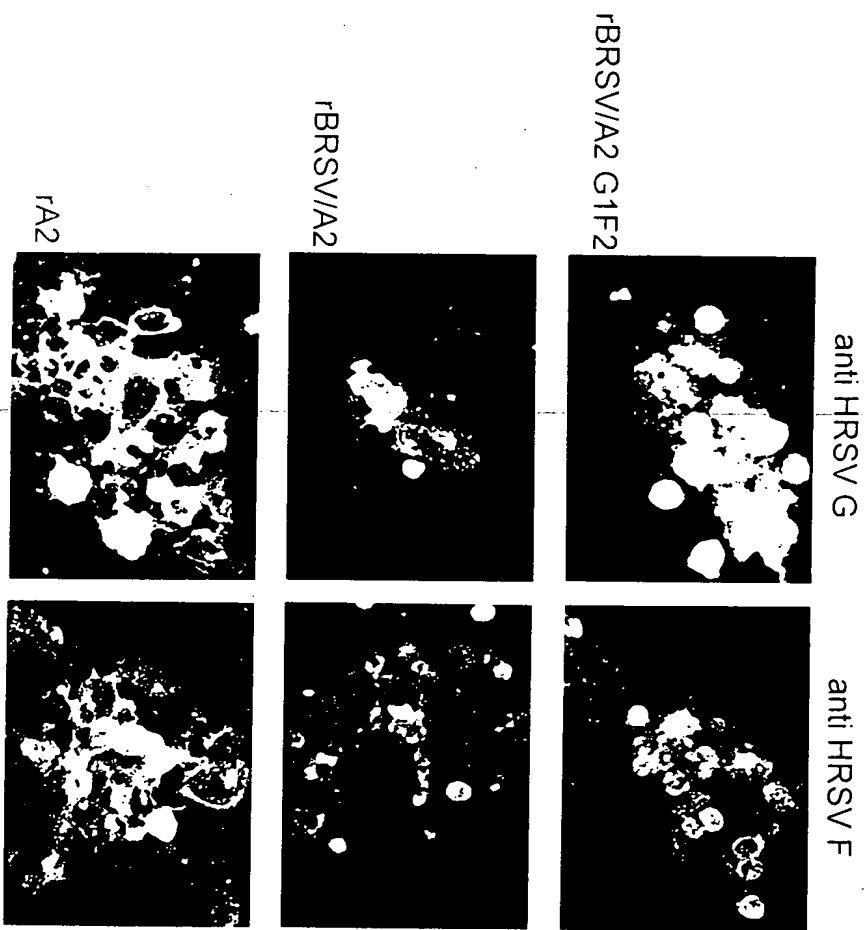


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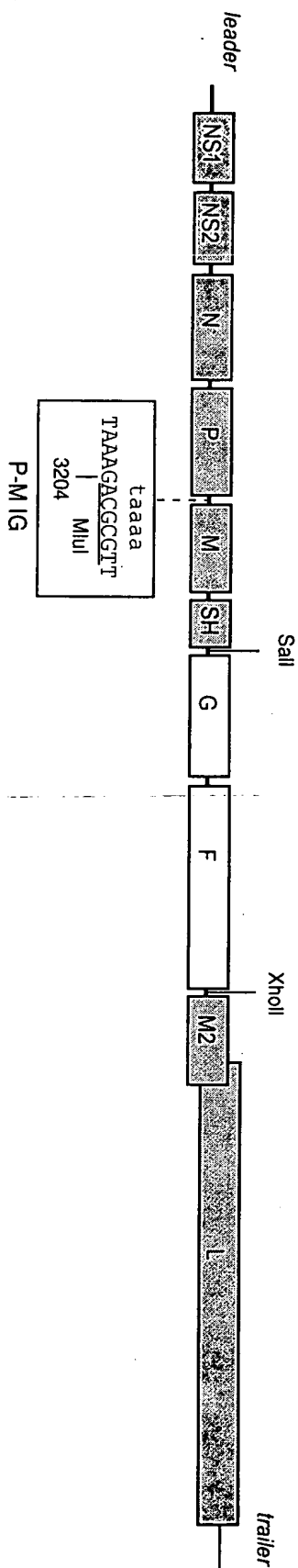
Figure 12



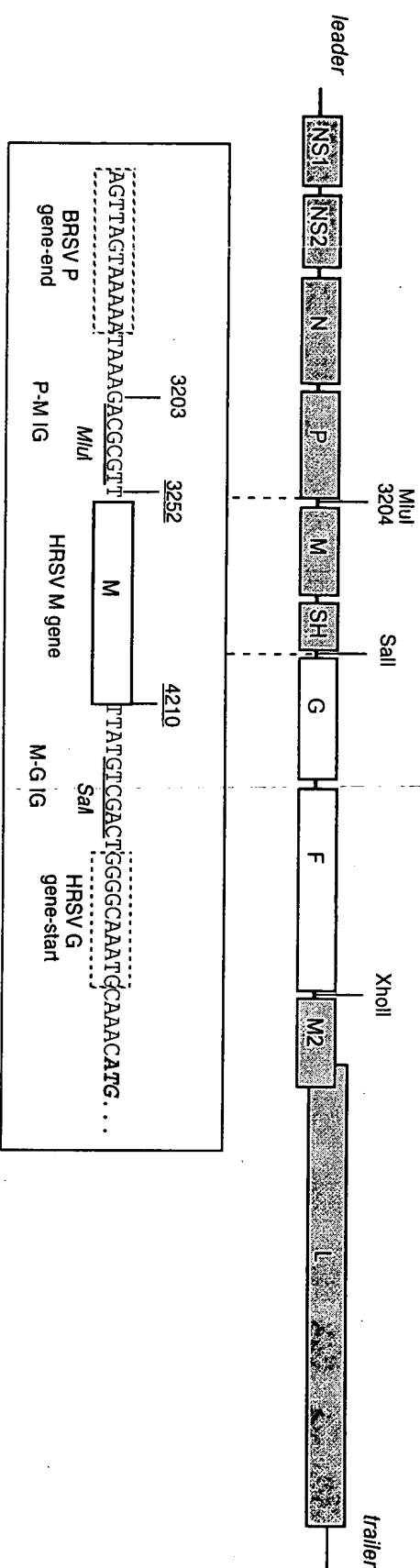
09602212 . 062300



A. Insert MluI site into rBRSV/A2



B. Replace BRSV M and SH genes with HRSV M gene to create rBRSV/A2-MGF



C. Structure of rBRSV/A2-MGF

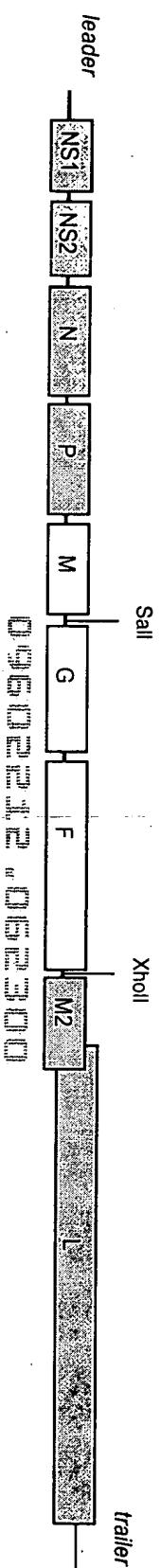


Figure 13

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